

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : DAINIPPON PRINTING CO LTD

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(54) PRODUCTION OF MASTER DISK FOR PRODUCING LIGHT INTERFERENCE TYPE GUIDE GROOVE OF OPTICAL DISK

(57)Abstract:

PURPOSE: To form concentric guide tracks with one time of exposing by irradiating a photoresist layer on a substrate with two luminous flux of laser light; collimated luminous fluxes and divergent light, thereby recording and reproducing interference fringes.

CONSTITUTION: The laser light emitted from a laser light source is split to the two luminous fluxes by a half mirror. The one luminous flux is collimated to the collimated beams of light by a lens system 8 via mirrors 7a, 7b and is then introduced to a photoresist master plate 10 consisting of the photoresist layer 20b and the substrate 10a. On the other hand, the other luminous flux is made into the divergent light by a convex mirror 9 and is then introduced to the plate 10. As a result, the interference fringes of both are concentrically generated. The formation of the concentric guide tracks with one time of exposing is enabled by exposing the photoresist layer in such a manner, then developing the same.

